We claim:

1. A method of using parameters of sensor signals provided by a sensor assembly to verify the sensor assembly, the sensor assembly comprising a conduit, the method comprising:

calculating a first sensor signal parameter relationship value between two sensor signals; and

comparing the calculated first sensor signal parameter relationship value between the two sensor signals with a baseline first sensor signal parameter relationship value between the two sensor signals to determine a first sensor assembly verification shift;

calculating a second sensor signal parameter relationship value between two sensor signals and comparing the calculated second sensor signal parameter relationship value between the two sensor signals with a baseline second sensor signal parameter relationship value between the two sensor signals to determine a second sensor assembly verification shift; and

determining a condition of the conduit based on the first sensor assembly verification shift and the second sensor assembly verification shift.

2. The method of claim 1, wherein calculating the sensor signal parameter relationship value between the two sensor signals comprises calculating the sensor signal parameter relationship value between a left pick-off sensor signal voltage value and a right pick-off sensor signal voltage value.

3. The method of claim 1, wherein calculating the sensor signal parameter relationship value between the two sensor signals comprises calculating one of a ratio and a difference between two sensor signal parameter values of the two sensor signals.

4. The method of claim 1, wherein comparing the calculated sensor signal parameter relationship value with a baseline sensor signal parameter relationship value comprises calculating a difference between the calculated sensor signal parameter relationship value with the baseline sensor signal parameter relationship value.

5. The method of claim 1, wherein the two sensor signals comprise two of a drive signal, a left pick-off sensor signal, and a right pick-off sensor signal.

6. The method of claim 1, further comprising determining a condition of the sensor assembly based on the comparison of the calculated sensor signal parameter relationship value and the baseline sensor signal parameter relationship value between the two sensor signals.

7. A meter electronics (20) for using parameters of sensor signals provided by a sensor assembly (10) to verify the sensor assembly (10), the meter electronics (20) comprising:

an interface (301) communicatively coupled to the sensor assembly (10), the interface (301) being configured to receive two sensor signals (100); and

a processing system (302) communicatively coupled to the interface (301), the processing system (302) being configured to perform a method according to one of the foregoing claims 1 through 6.

8. A method for using parameters of sensor signals provided by a sensor assembly to verify the sensor assembly, the sensor assembly comprising a conduit, the method comprising:

determining a current first sensor assembly verification value and a current second sensor assembly verification value;

comparing the current first sensor assembly verification value to a baseline first sensor assembly verification value to determine a first sensor assembly verification shift;

comparing the current second sensor assembly verification value to a baseline second sensor assembly verification value to determine a second sensor assembly verification shift; and

determining a condition of the conduit based on the first sensor assembly verification shift and the second sensor assembly verification shift;

wherein at least one of the current first sensor assembly verification value and the current second sensor assembly verification value is comprised of a sensor signal parameter relationship value.

9. The method of claim 8, wherein:

the first sensor assembly verification shift represents a physical stiffness change of the conduit between a driver and a left pick-off sensor; and

the second sensor assembly verification shift represents a physical stiffness change of the conduit between the driver and a right pick-off sensor.

10. The method of one of claim 8 and claim 9, wherein the sensor signal parameter relationship value is one of a ratio and a difference of two sensor signal parameter values.

11. The method of one of any of claims 8 through 10, wherein the sensor signal parameter relationship value is determined based on two of a left pick-off sensor signal parameter, a right pick-off sensor signal parameter, and a drive signal parameter.

12. The method of one of any of claims 8 through 11, further comprising providing an alarm based on the determination of the condition of the conduit.

13. The method of one of any of claims 8 through 12, wherein the condition of the conduit comprises at least one of an erosion, a corrosion, a damage, and a coating of the conduit of the vibratory meter.

14. A meter electronics (20) for using parameters of sensor signals provided by a sensor assembly (10) to verify the sensor assembly (10), the meter electronics (20) comprising:

an interface (301) configured to receive a left pick-off sensor signal and a right pick-off sensor signal from a meter assembly (10); and

a processing system (302) communicatively coupled to the interface (301), said processing system (302) being configured to perform a method according to one of the foregoing claims 8 through 13.